

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization International Bureau



(43) International Publication Date
29 July 2004 (29.07.2004)

PCT

(10) International Publication Number
WO 2004/063108 A1

(51) International Patent Classification⁷: C03C 4/00, 3/078

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(21) International Application Number:

PCT/BR2003/000199

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(22) International Filing Date:

19 December 2003 (19.12.2003)

(81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

PI0300042-7 14 January 2003 (14.01.2003) BR

(84) Designated States (regional): ARIPO patent (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

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Published:

— with international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

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WO 2004/063108 A1

(54) Title: GLASS COMPOSITIONS FOR THE PRODUCTION OF LEAD-FREE CRYSTALS

(57) Abstract: The invention refers to glass compositions for the production of lead-free crystals, having a density greater than 2.4g/cm³, a refractory index of at least 1.51 and high resistance to chemical attack, characterized by comprising, by weight: from about 50% to about 75% of SiO₂; from about 0,1% to about 1% of As₂O₃; from about 5% to about 15% of K₂O; from about 2% to about 6% of Na₂O; from about 3% to about 12% of CaO; from about 0,1% to about 5% of BaO; from about 0,1% to about 10% of Nb₂O₅; and, up to 5% of other elements.